

CLAIMS

1. A colored soda-lime glass composed of glass-forming principal constituents and of coloring agents, characterized in that it contains from 0.40 to 0.52% by weight of FeO and has, under illuminant A and for a glass thickness of 4 mm, a light transmission (TLA4) of less than 70%, a selectivity (SE4) of greater than 1.65 and an ultraviolet radiation transmission (TUV4) of less than 8%.

2. The colored glass as claimed in claim 1, characterized in that it has a selectivity (SE4) of greater than or equal to 1.70, preferably greater than or equal to 1.75.

3. The colored glass as claimed in either of claims 1 and 2, characterized in that it has a light transmission of greater than 15%, preferably greater than 20%, and less than 50%, preferably less than 45%.

4. The colored glass as claimed in any one of claims 1 to 3, characterized in that it has, for a glass thickness of 5 mm, a dominant wavelength (λ_d) of less than 550 nm, preferably less than 520 nm.

5. The colored glass as claimed in any one of claims 1 to 4, characterized in that it has a purity (P) of greater than 9%, preferably greater than 10%.

6. The colored glass as claimed in any one of claims 1 to 4, characterized in that it contains, in addition to Fe, at least one of the coloring agents Cr, Co, V, Se, Ti, Ce, Mn.

7. The colored glass as claimed in any one of claims 1 to 5, characterized in that it has the following optical properties:

20% < TLA4 < 40%

15% < TE4 < 25%

0% < TUV4 < 5%

480 nm < λ_d < 520 nm

10% < P < 20%.

8. The colored glass as claimed in claim 7, characterized in that it comprises the following percentages by weight of coloring agents, the total amount of iron being expressed in the form of Fe_2O_3 :

5	Fe_2O_3	1.2 to 1.85%
	FeO	0.40 to 0.50%
	Co	0.0020 to 0.0130%
	Cr_2O_3	0 to 0.0240%
	V_2O_5	0 to 0.1%
10	Se	0 to 0.0015%.

9. The colored glass as claimed in any one of claims 1 to 6, characterized in that it has the following optical properties:

$$25\% < \text{TLA4} < 35\%$$

15 $15\% < \text{TE4} < 20\%$

$$0\% < \text{TUV4} < 3.5\%$$

$$495 \text{ nm} < \lambda_D < 500 \text{ nm}$$

$$10\% < P < 15\%.$$

10. The colored glass as claimed in claim 9, characterized in that it has a TLA4 of less than 30%, preferably less than 28%.

11. The colored glass as claimed in claim 9 or 10, characterized in that it comprises the following percentages by weight of coloring agents, the total amount of iron being expressed in the form of Fe_2O_3 :

25	Fe_2O_3	1.45 to 1.85%
	FeO	0.40 to 0.45%
	Co	0.0030 to 0.0120%
	Cr_2O_3	0.0190 to 0.0230%
30	V_2O_5	0.0350 to 0.0550%
	Se	0 to 0.0010%.

12. The colored glass as claimed in any one of claims 1 to 11, characterized in that its percentage by weight of FeO is greater than 0.42.

35 13. The colored glass as claimed in any one of claims 1 to 12, characterized in that it does not contain Se among its coloring agents.

14. The colored glass as claimed in any one of claims 1 to 13, characterized in that it has, for a

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thickness of 5 mm, a light transmission under illuminant C (TLC5) of between 15 and 35%.

15. The colored glass as claimed in any one of claims 1 to 14, characterized in that it is coated with 5 a layer of metal oxides.

16. The colored glass as claimed in any one of claims 1 to 15, characterized in that it is in sheet form.

17. The colored glass as claimed in claim 16, 10 characterized in that it is used in the make-up of a window for an automobile.

18. The colored glass as claimed in claim 17, characterized in that it is used in the make-up of laminated glazing.

15 19. The colored glass as claimed in claim 17 or 18, characterized in that it is used in the make-up of a rear window or rear side window for an automobile.

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